IN THE CLAIMS

Please amend the claims as follows:

1. (Currently Amended) An angular velocity sensor comprising:

an oscillating element including a drive electrode, a monitor electrode and a detecting electrode;

a drive circuit having [[its]] an output side connected with the drive electrode of the oscillating element;

a detecting circuit having [[its]] an input side connected with the detecting electrode of the oscillating element;

a monitor circuit having [[its]] an input side connected with the monitor electrode of the oscillating element;

a rectifying circuit for rectifying an output signal of the monitor circuit;

a smoothing circuit for smoothing [[the]] an output signal of the rectifying circuit to obtain a smoothed signal; and

an oscillation control circuit adapted to be fed with the output signal of the monitor circuit and to have a gain controlled with [[the]] an output signal of the smoothing circuit, [[for]] the oscillation control circuit inputting its output signal to the drive circuit,

wherein the smoothing circuit includes:

a first switch having an input terminal connected with the output side of the rectifying circuit;

a first capacitor having ~~its one~~ a first terminal connected with an output terminal of the first switch;

a second switch having an input terminal connected with the output terminal of the first switch and an output terminal connected with [[the]] an input side of the oscillation control circuit;

a first reference voltage connected with ~~the other~~ a second terminal of the first capacitor;

a second capacitor having ~~its one~~ a first terminal connected with the output terminal of the second switch and ~~its other~~ a second terminal connected with the first reference voltage; and

control signal feeding means for feeding a signal to control the ON/OFF of the first switch and the second switch.

2. (Currently Amended) The angular velocity sensor of claim 1, wherein the control signal feeding means ~~is fed as its source signal with~~ receives, as a source signal, the output signal of the monitor circuit.

3. (Currently Amended) The angular velocity sensor of claim 1, wherein the control signal feeding means ~~is fed as its source signal with~~ receives, as a source signal, the output signal of the drive circuit.

4. (Currently Amended) The angular velocity sensor of claim 1, wherein the control signal feeding means ~~is fed as its source signal with~~ receives, as a source signal, the output signal of the oscillation control circuit.

5. (Currently Amended) The angular velocity sensor of claim 1, wherein the control signal feeding means ~~is fed as its source signal with~~ receives, as a source signal, [[the]] an output signal of an oscillating circuit.

6. (Currently Amended) The angular velocity sensor of claim 1, wherein the control signal feeding means ~~is fed as its source signal with~~ receives, as a source signal, an AC signal applied from signal generating means outside of the sensor.

7. (Currently Amended) An automobile comprising: a body; a plurality of tires for supporting the body; and a brake system provided for each tire, wherein the brake system is fed with [[the]] a detected output from an angular velocity sensor of any of claims 1 to 6.

8. (Currently Amended) An automobile comprising: the body; at least one seat disposed in the body; and an airbag system disposed near the seat, wherein the airbag system is fed with [[the]] a detected output from an angular velocity sensor of any of claims 1 to 6.